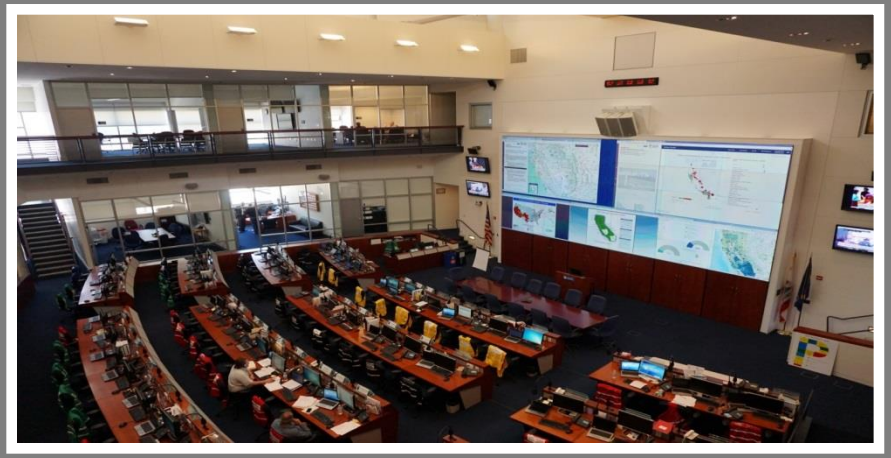
California Governor's Office of Emergency Services

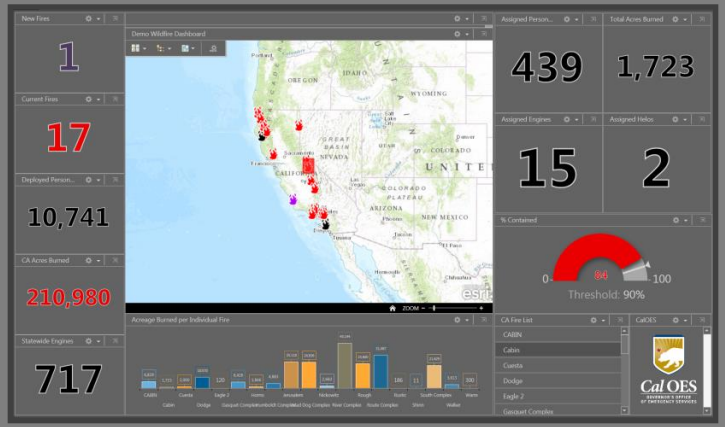
GIS Accomplishments in 2015

ArcGIS Online Emergency Response & Recovery Products

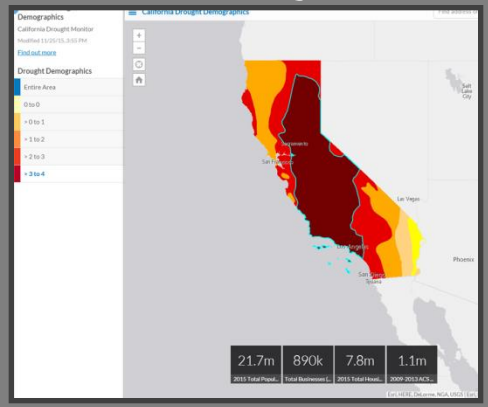
State Operations Center



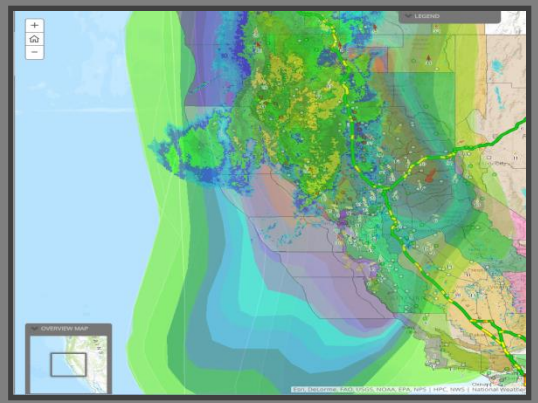
2015 Fires Dashboard



2015 Drought



Winter Storms



Drought 2015
Executive Briefing

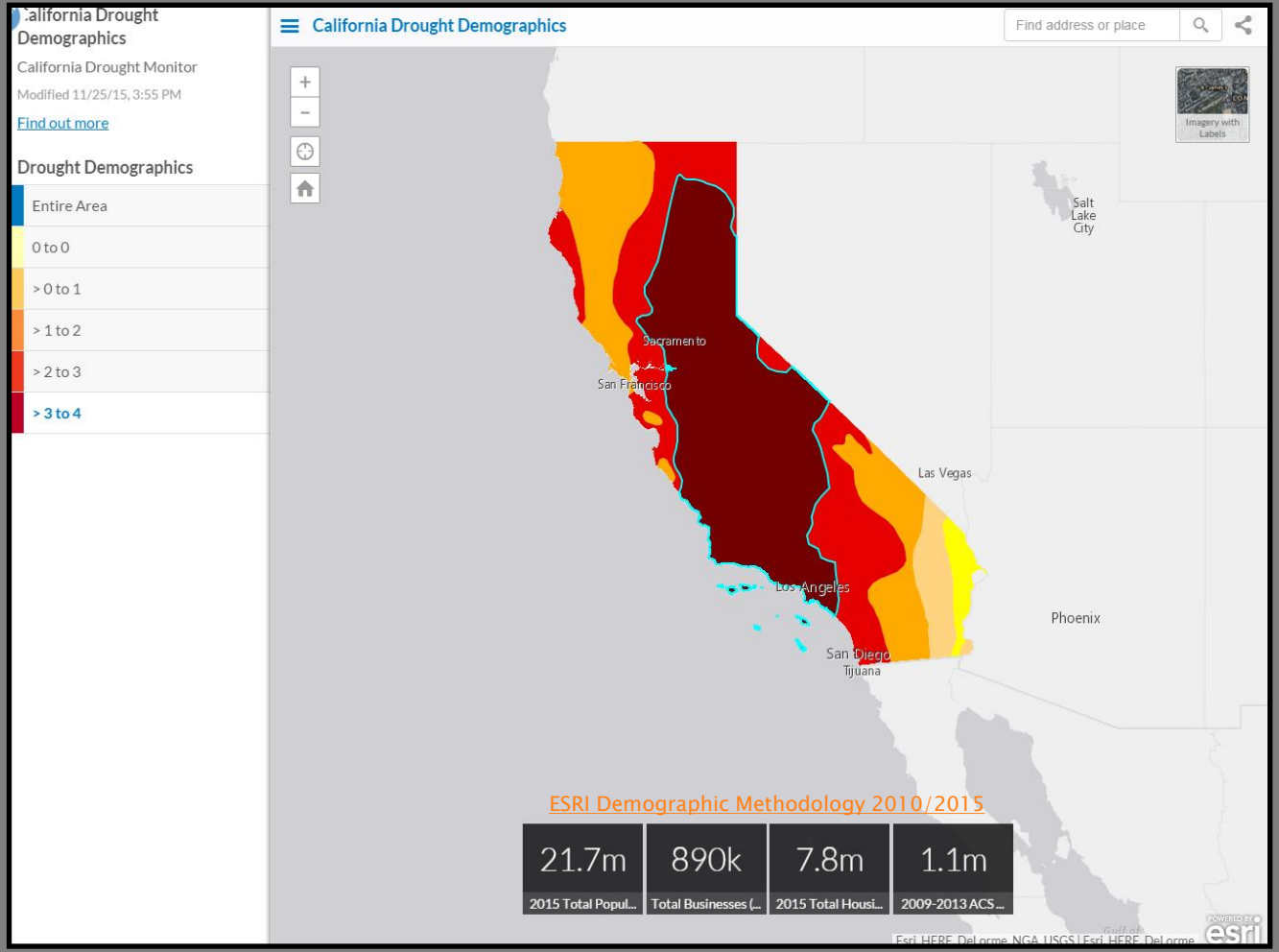
State Drought Monitoring Conditions

Table of Contents

- Reservoir Conditions
- Dry Wells per County
- Proclamations and Task Forces
- Drinking Water Drought Funding
- California Disaster Assistance Act Funding
- Emergency Food Assistance
- Fish Rescues
- Residential Water Conservation Standard
- Statewide Unemployment Rate
- Agriculture Summary
- Large Areas of Subsidence
- Recent Subsidence
- 2014 Fires Summary
- 2015 Fires Summary

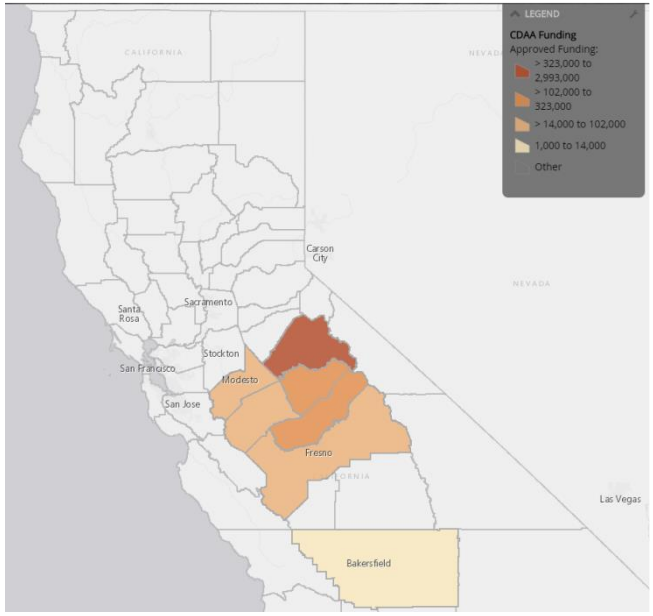
Executive Briefing Journal developed for

- The Governor's Drought Task Force
- Cal OES Executives and
- Cal OES Drought Recovery Planning Group



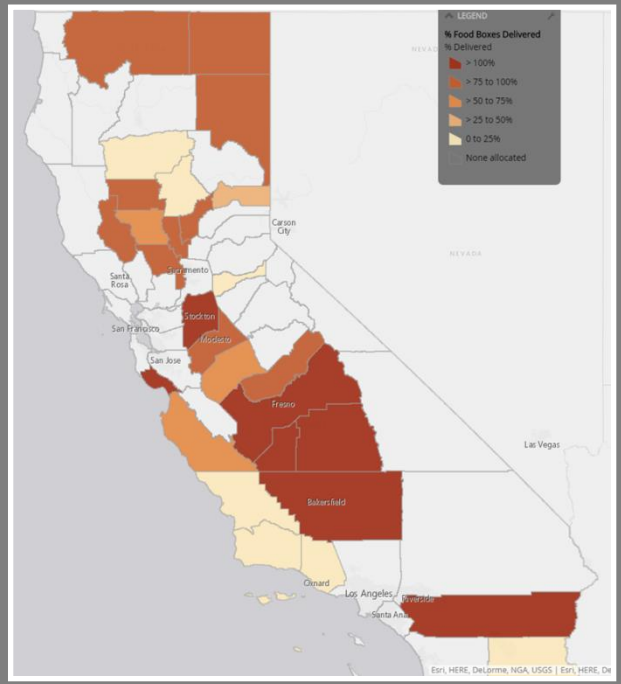
Drought Funding

California Disaster Assistance Act Funding CDAA



Funding for Emergency water supplies to households without water for drinking and/or sanitation purposes.
Total: **$3,932,736** Week Ending **10/2/2015**

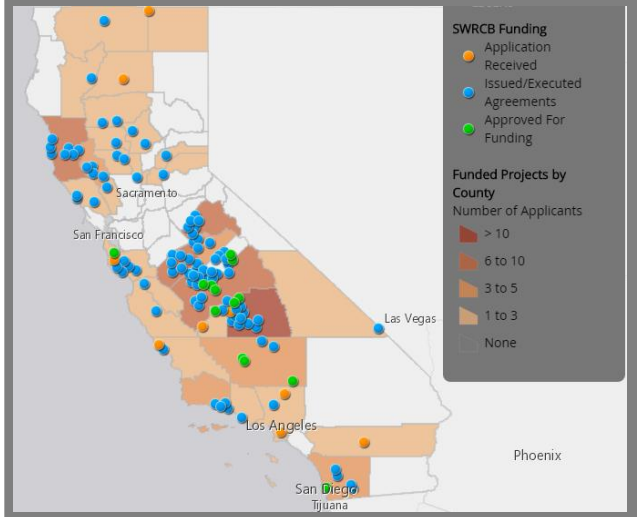
Emergency Food Assistance –FoodLink



The Department of Social Services (CDSS) Drought Food Assistance Program (DFAP) provided to date, over **1,013,968 boxes** to community food banks in drought-impacted counties,

- Approximately **915,013 boxes** of food have been picked up by **478,110 households**.

Drinking Water Drought Funding



Weekly updates from the State Water Resources Board

Executive Briefing Journal provides:

- Situational Awareness of Recovery Efforts, and
- Serves as a Common Operational Picture

NOTE:

- Map Color Thematic- Darker colors denote higher intensity or values

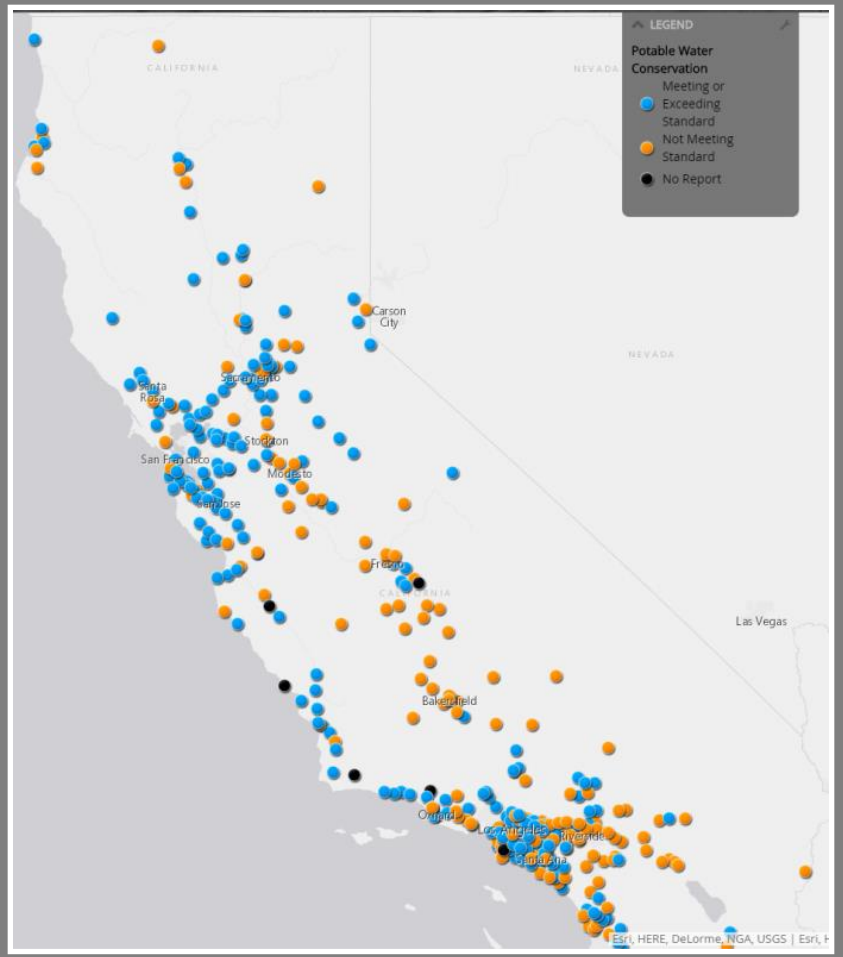
Mitigation

The emergency water conservation regulation requires urban water suppliers to provide monthly water use reports to the State Water Board. Urban water suppliers are expected to meet, or exceed, their individual conservation standard starting in June 2015 and continuing through February 2016. The year 2013 serves as the baseline for determining water savings statewide.

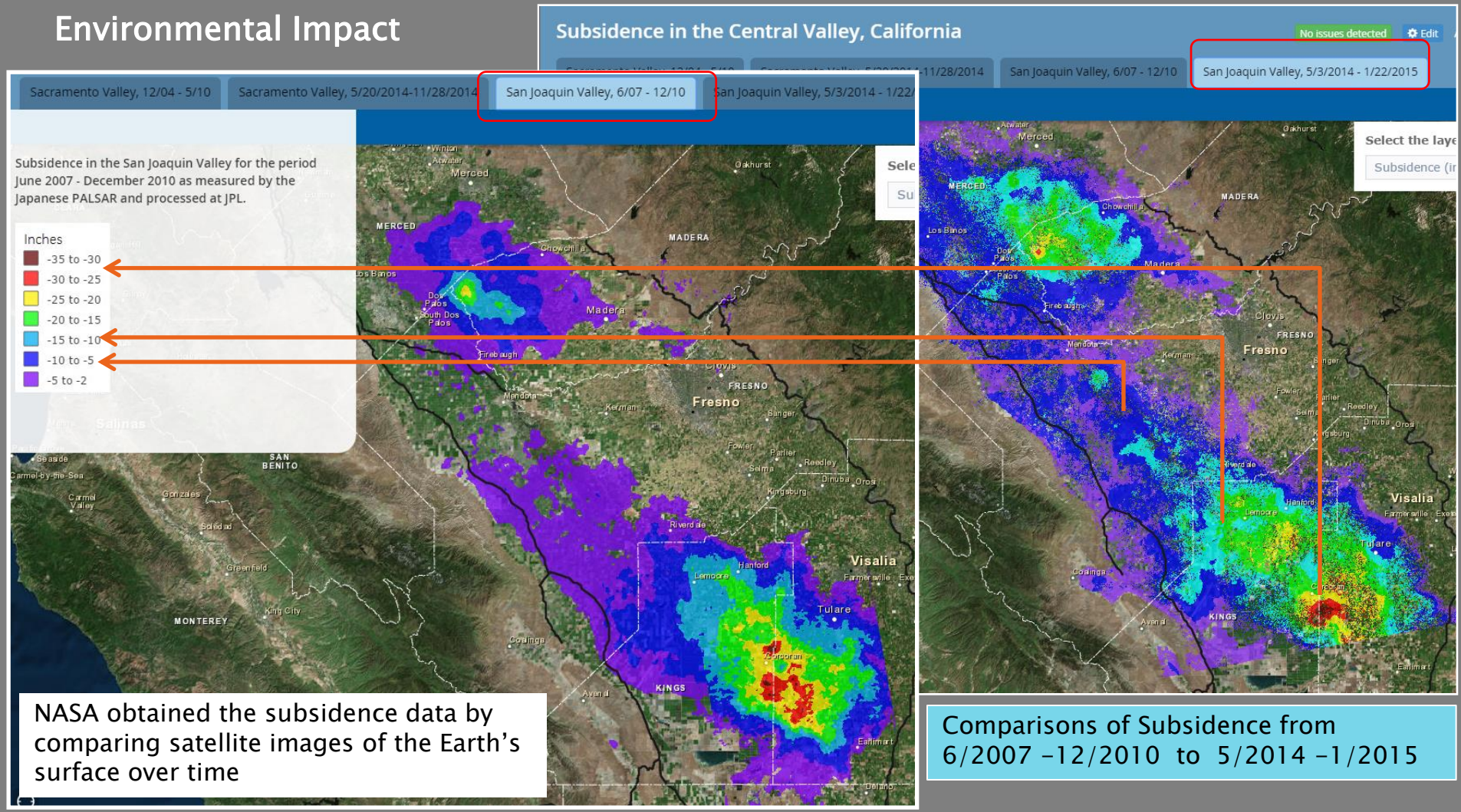
Data submitted by water suppliers is available on the State Water Resources Control Board's Water Conservation Portal. Suppliers report monthly production statistics and residential gallons per capita per day (R-GPCD). The data presented here reflect residential water conservation derived from these reports.

Monthly Report by the State Water Resources Control Board

Residential Water Conservation Standard



Environmental Impact

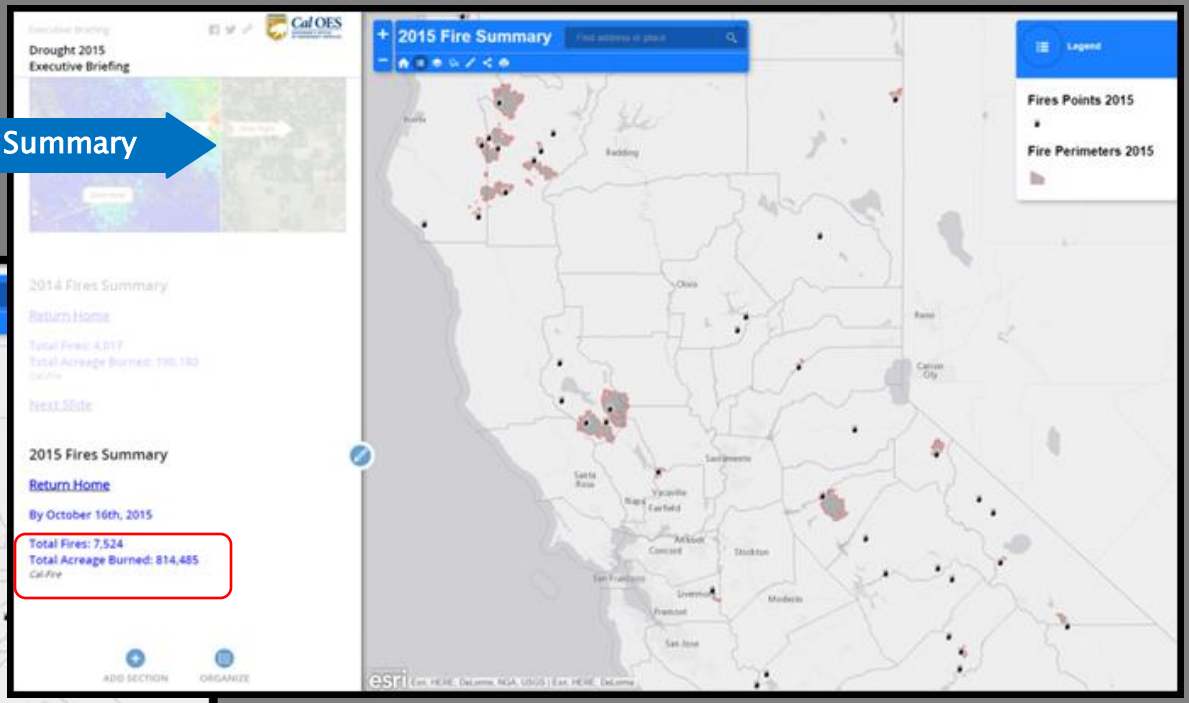


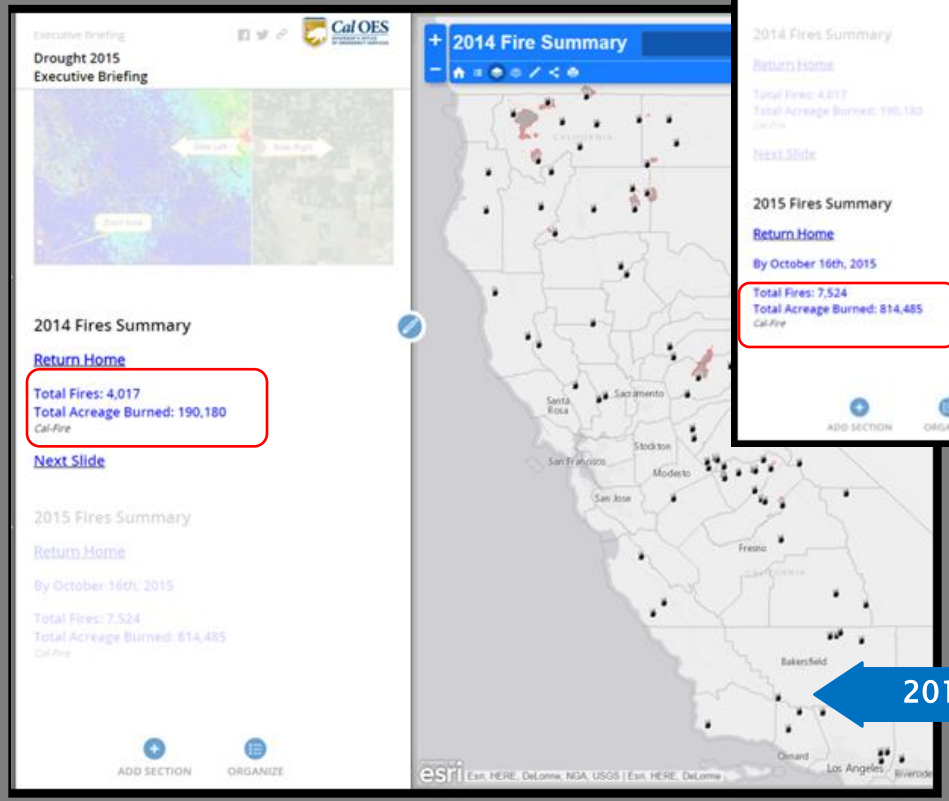
NASA obtained the subsidence data by comparing satellite images of the Earth's surface over time

Comparisons of Subsidence from 6/2007 -12/2010 to 5/2014 -1/2015

Environmental Impact

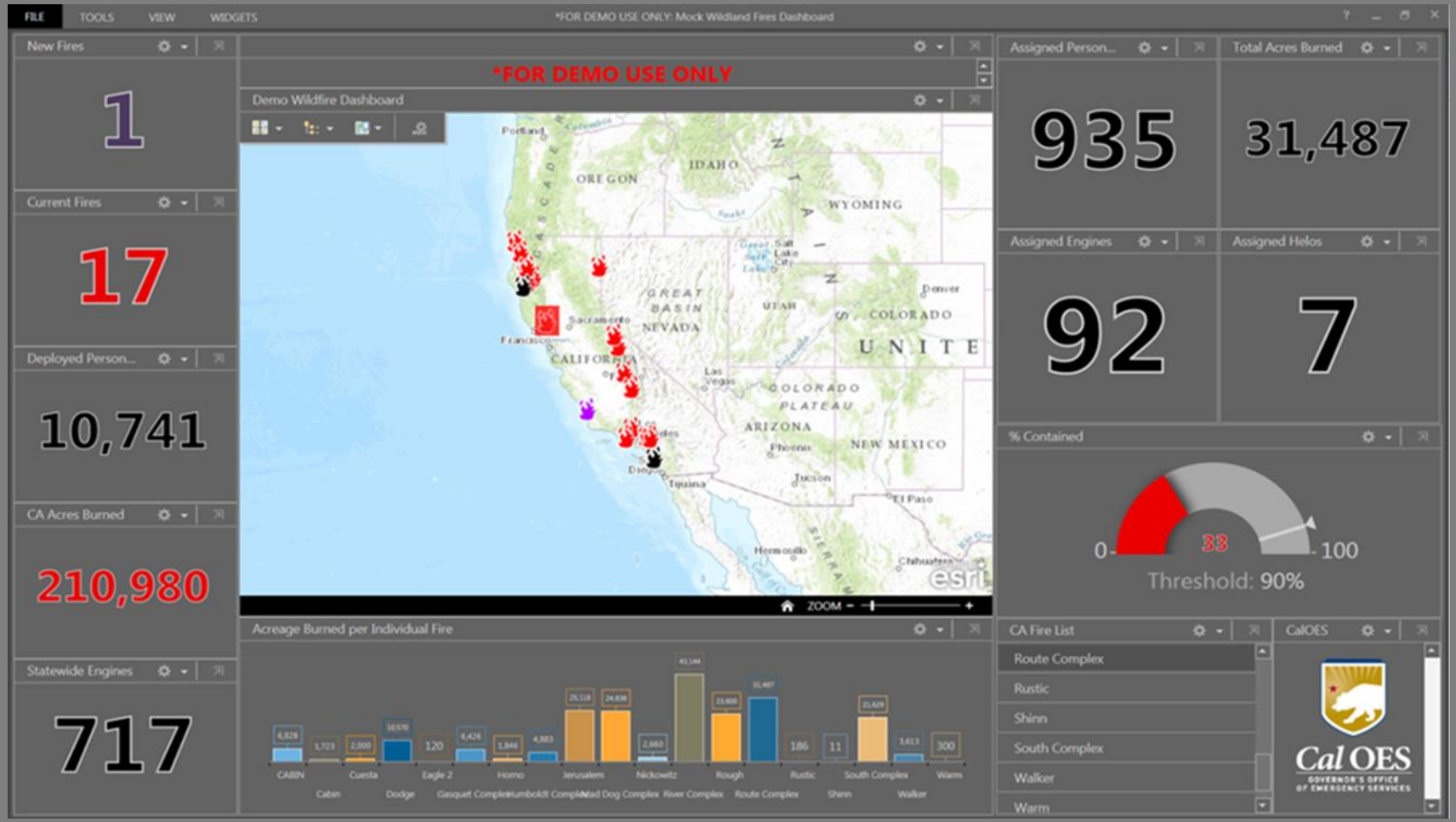
2015 Fires Summary



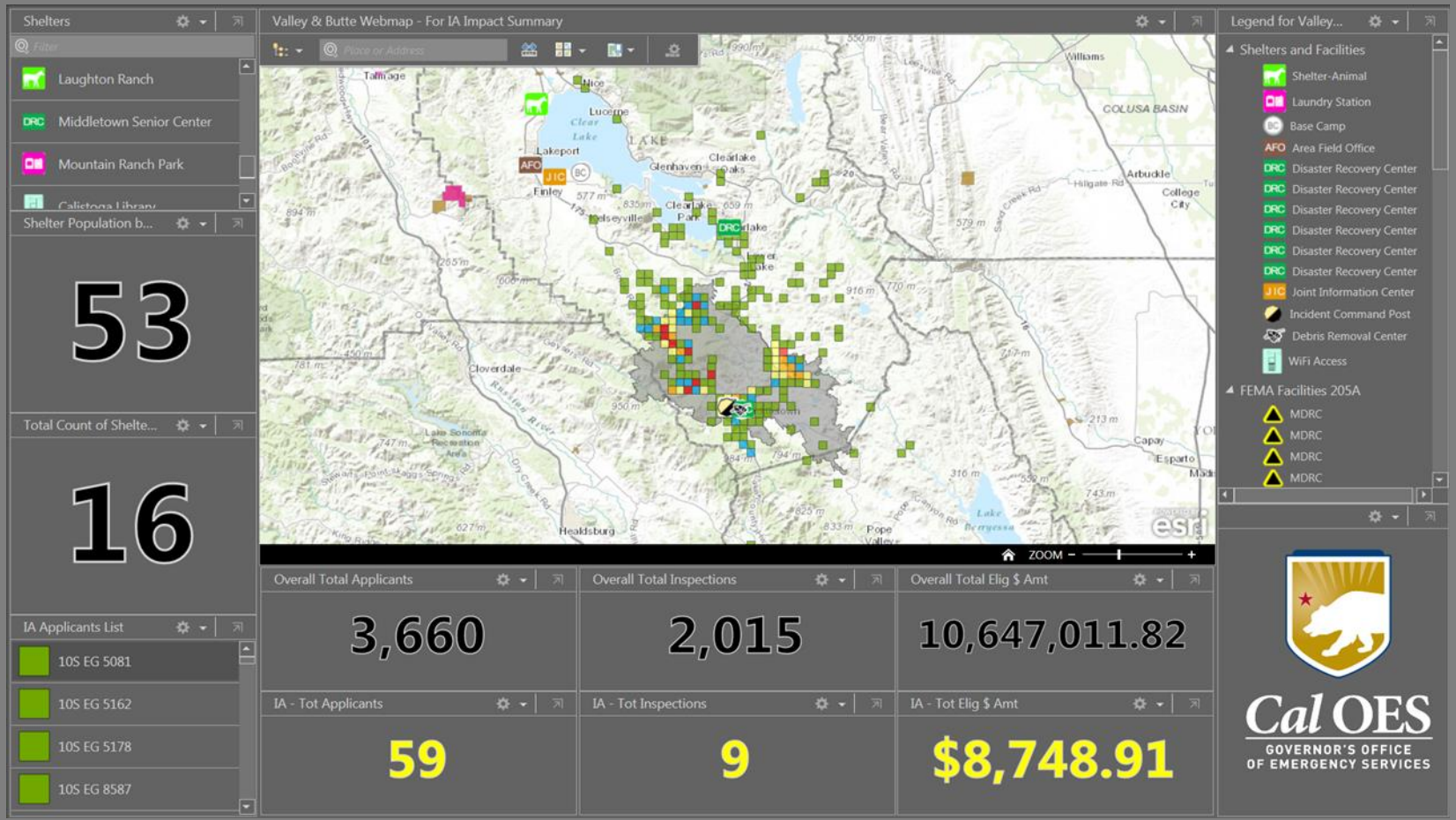


2014 Fires Summary

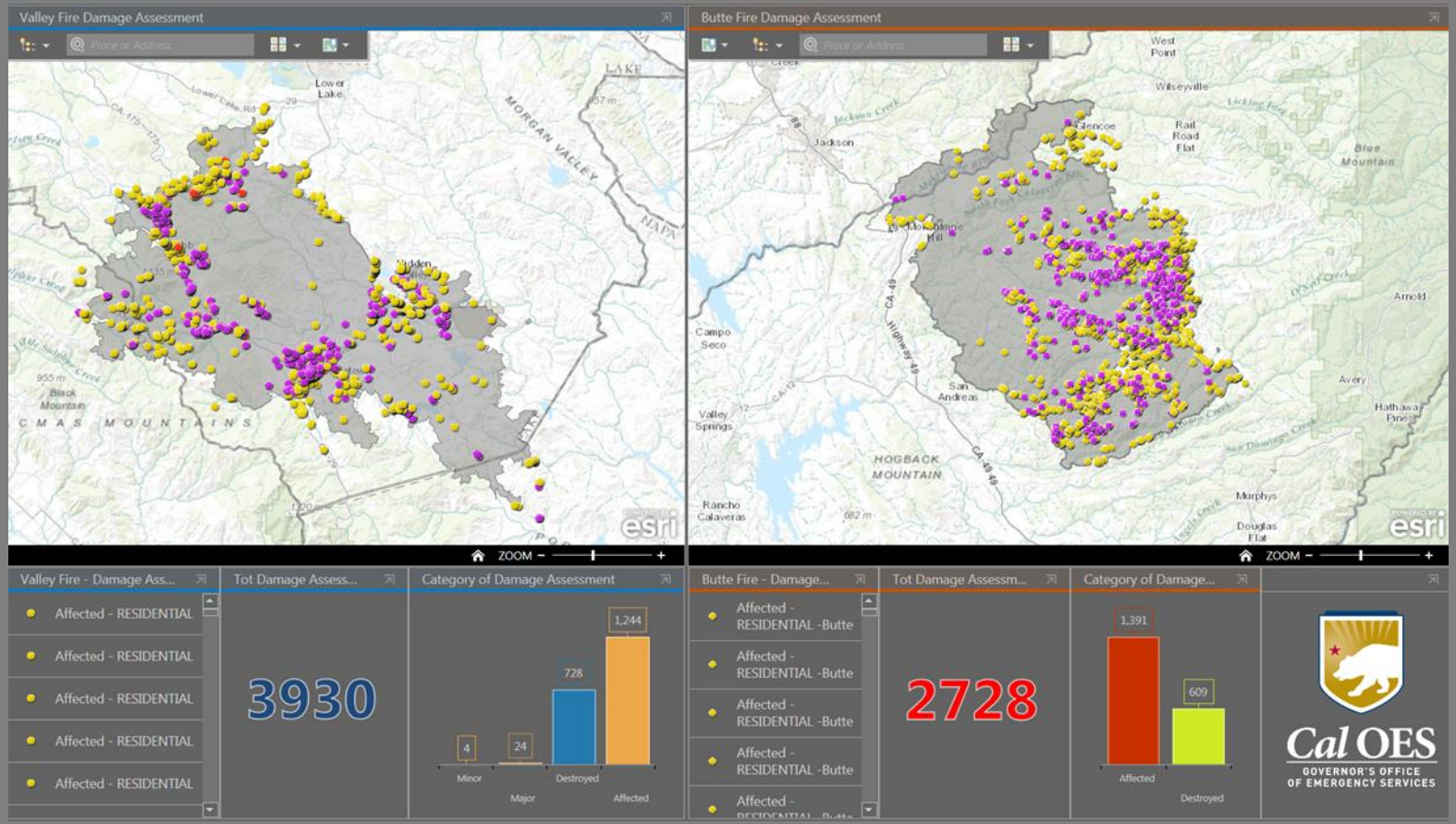
2015 Fires Metrics Summary Dashboard (ICS 209)



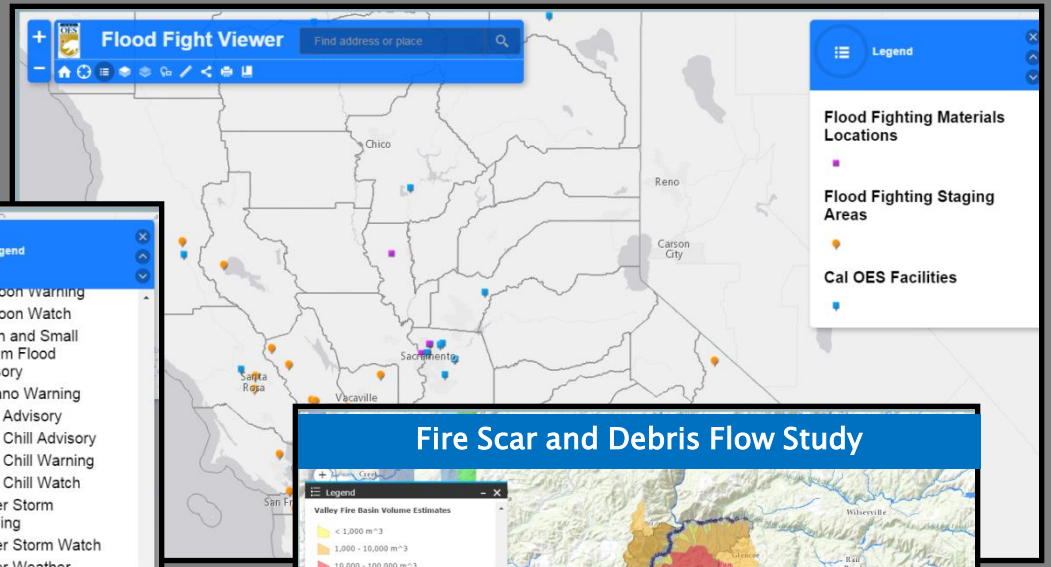
Joint Field Office (FEMA)
Individual Assistance Dashboard – Fire Recovery (Valley & Butte)

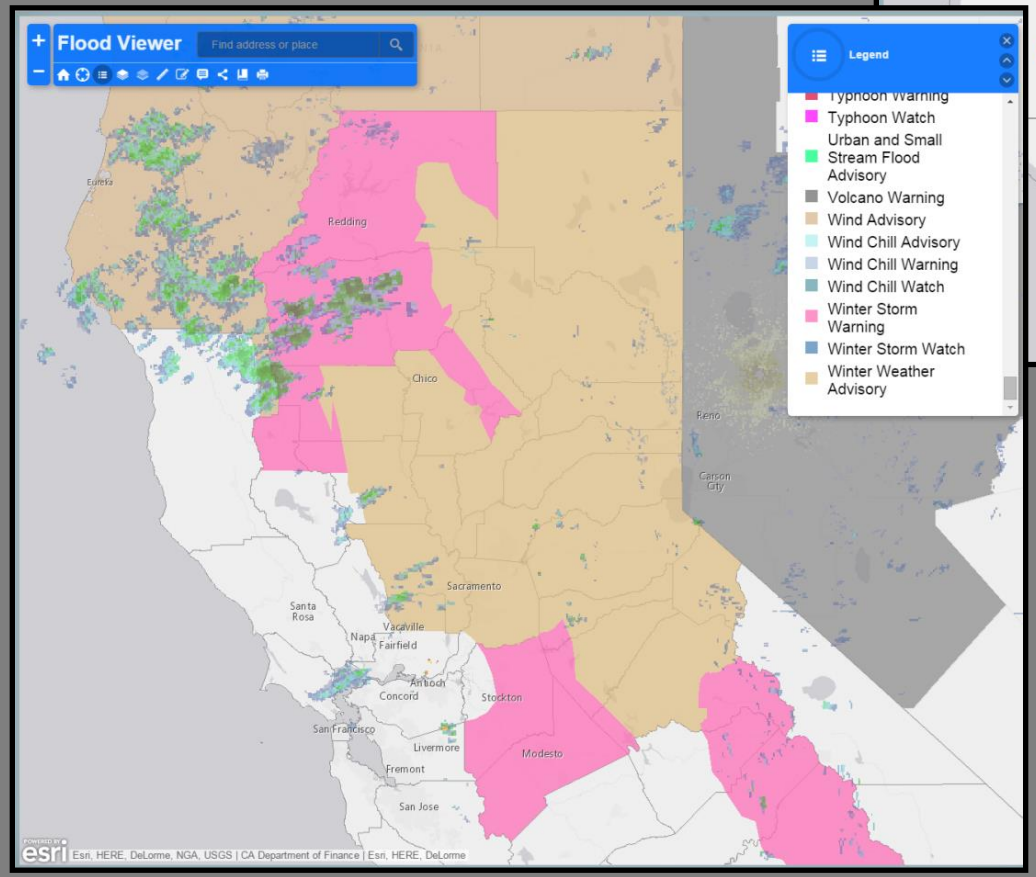


Joint Field Office (FEMA)
Damage Assessments – Fire Recovery (Valley & Butte)

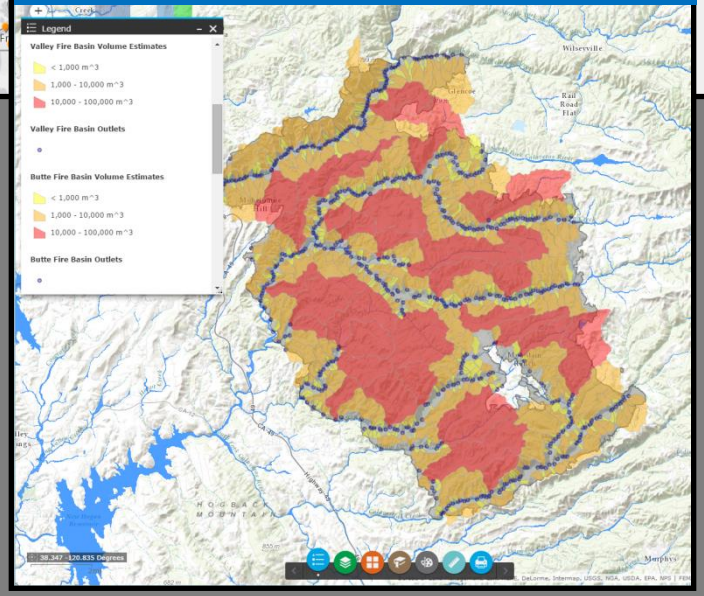


Flood Map Journal 2015





Fire Scar and Debris Flow Study

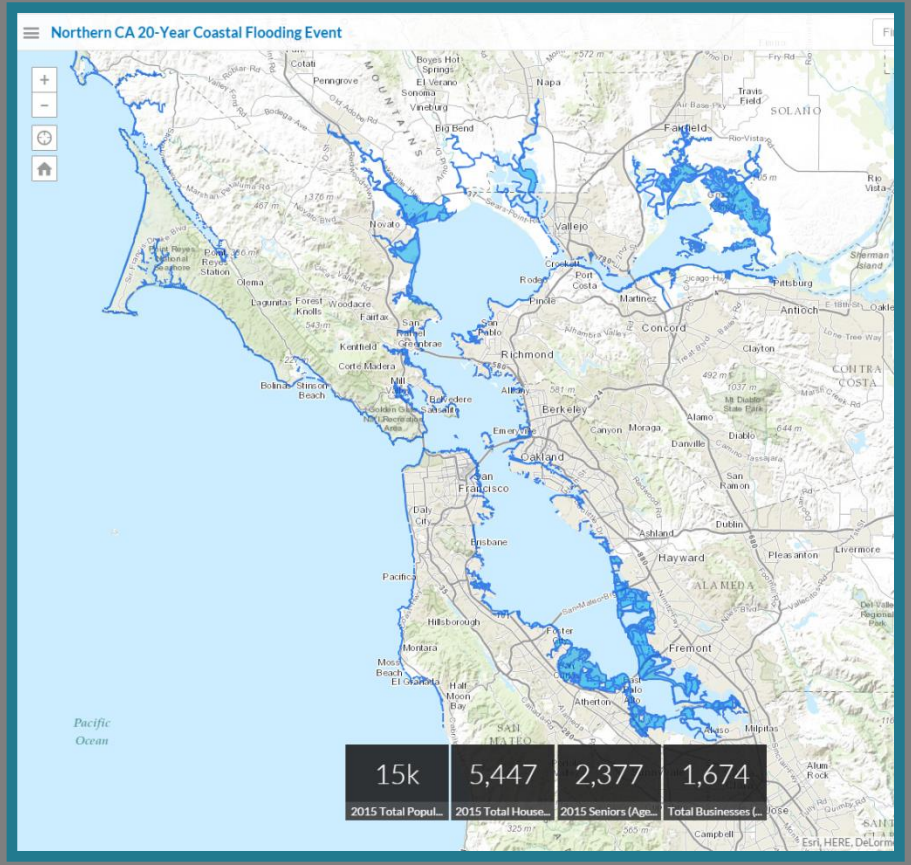


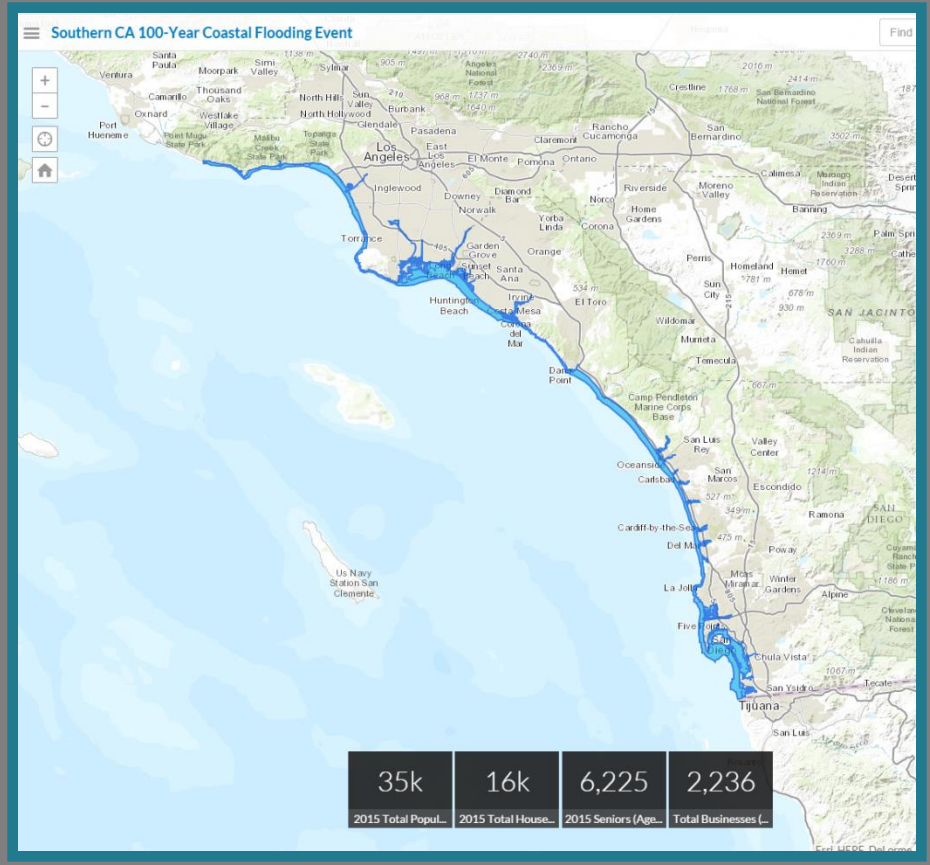
Probability of Coastal Flooding Events and Population Demographics

ESRI Demographic Methodology 2010/2015

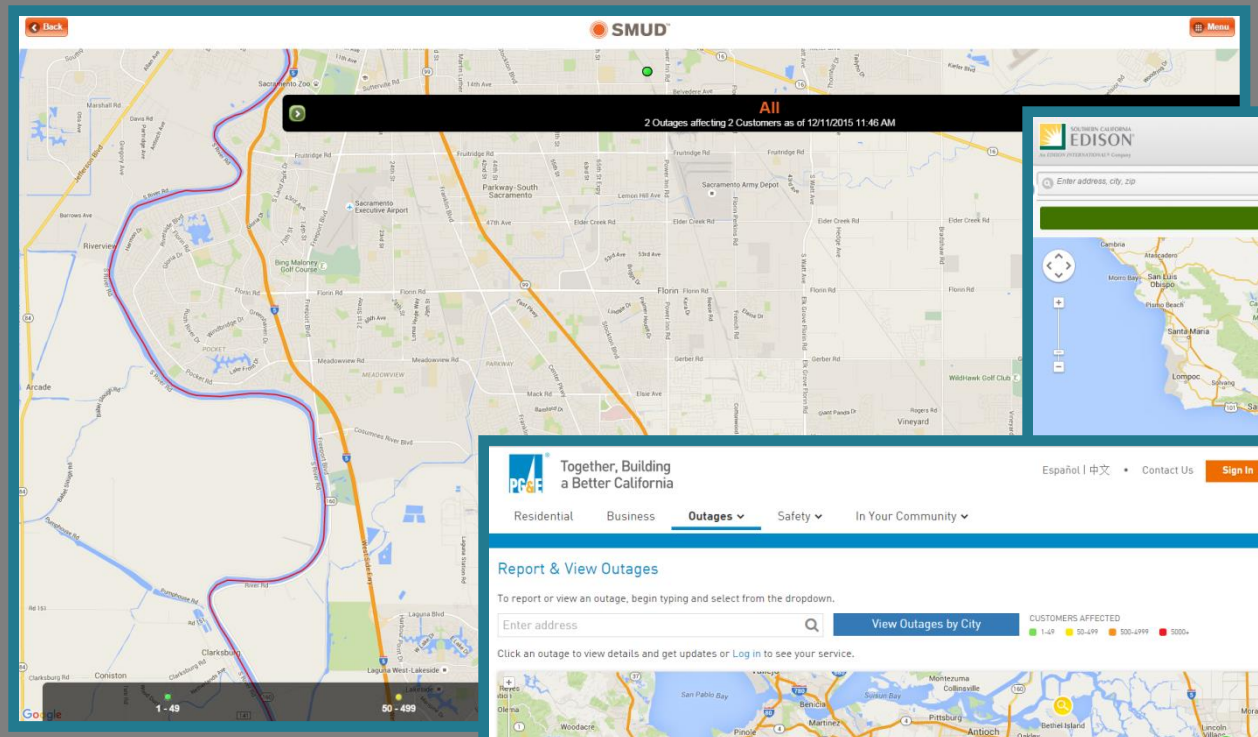
Present day sea level plus an extreme coastal flooding event associated with a large storm that occurs on average for:

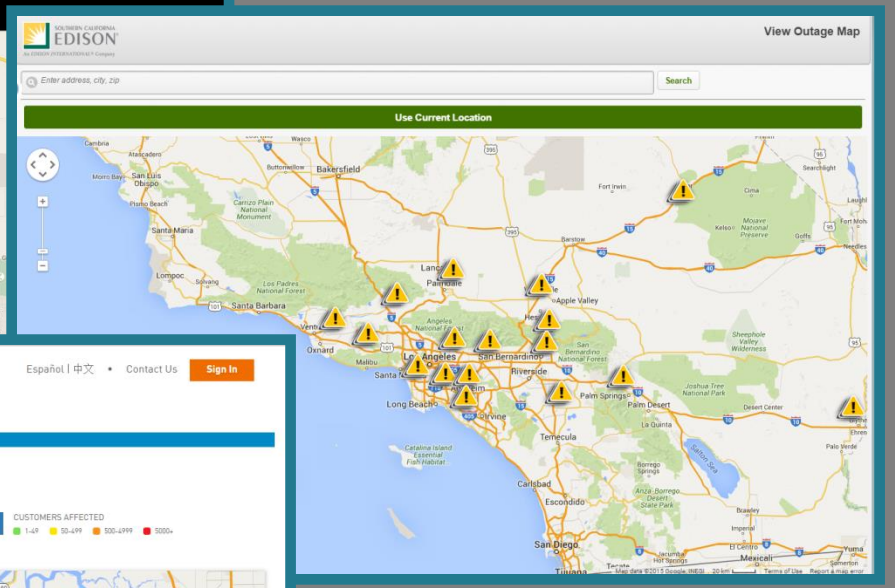
- North Central California Coast once every 20 years (5% probability each year), and
- Southern California Coast once every 100 years (1% probability each year)

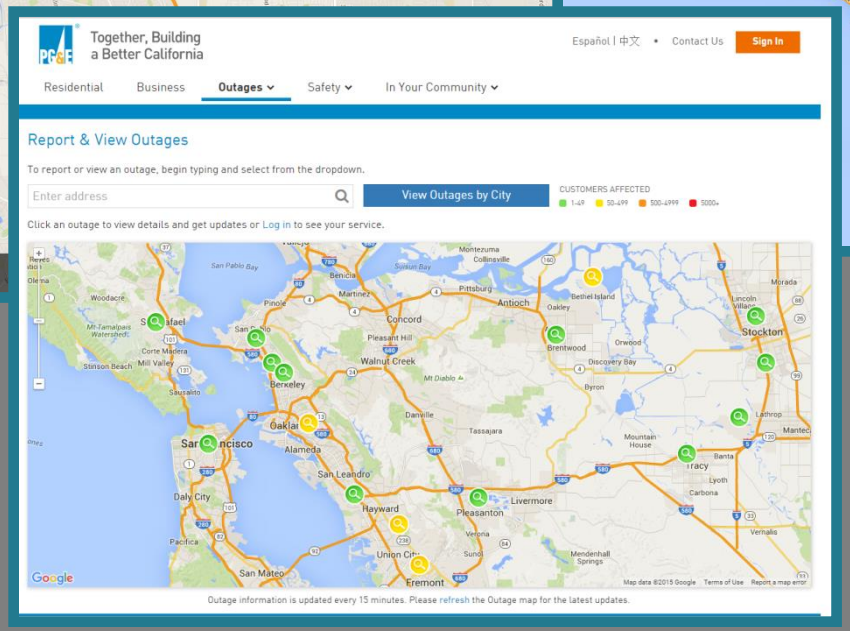




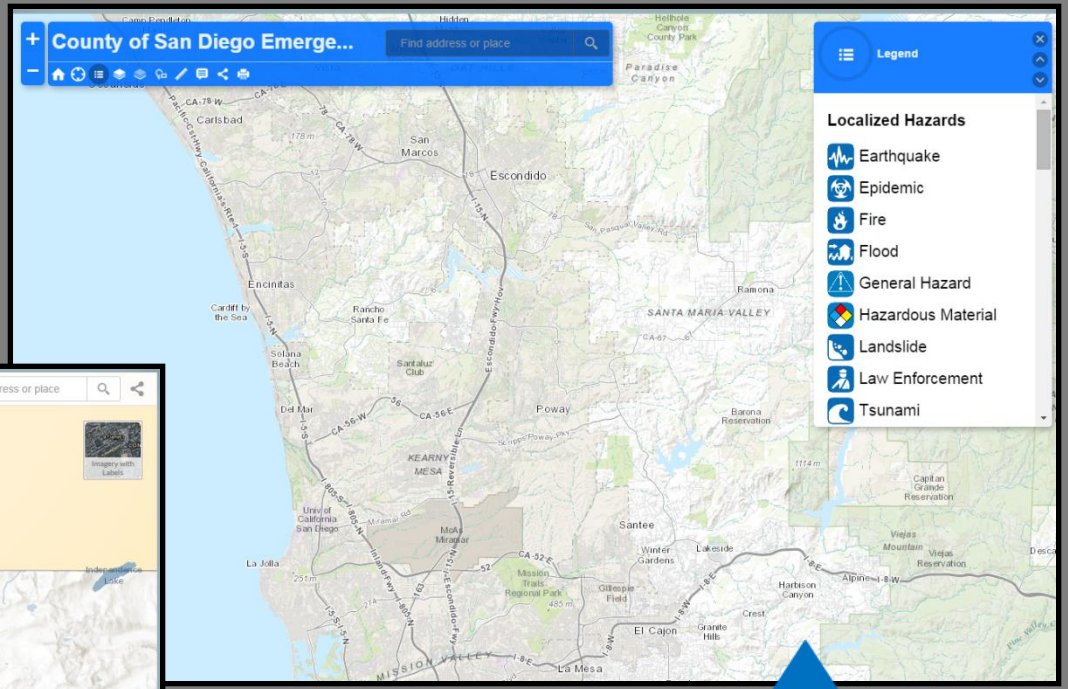
Live Power Outage Maps



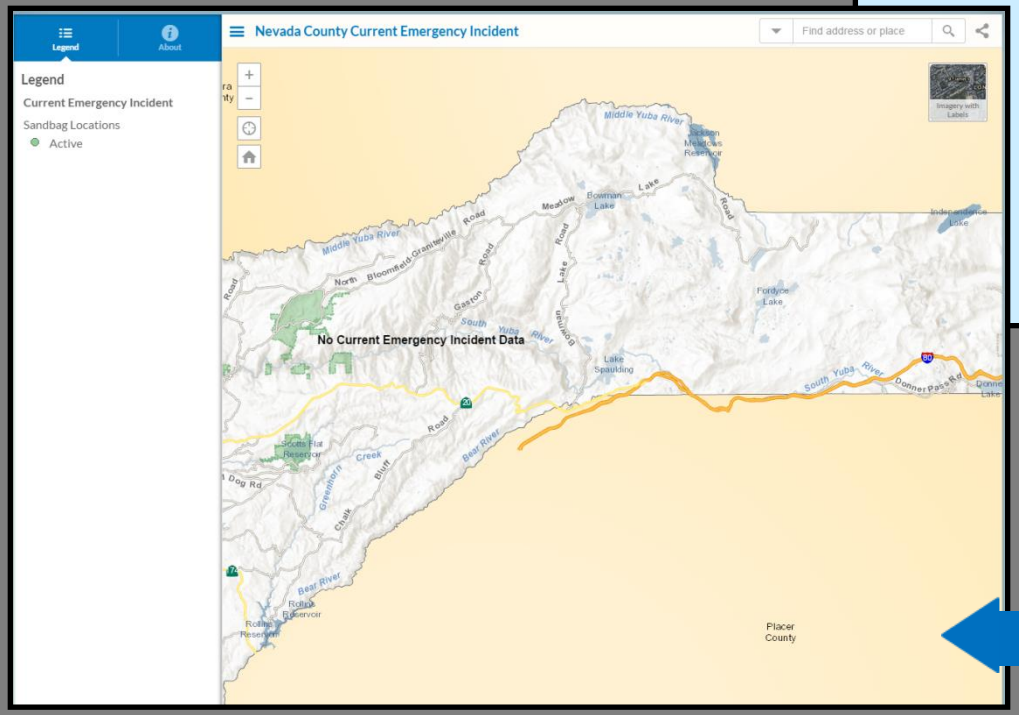




Incident Data Collaborations with Operational Areas



County of San Diego

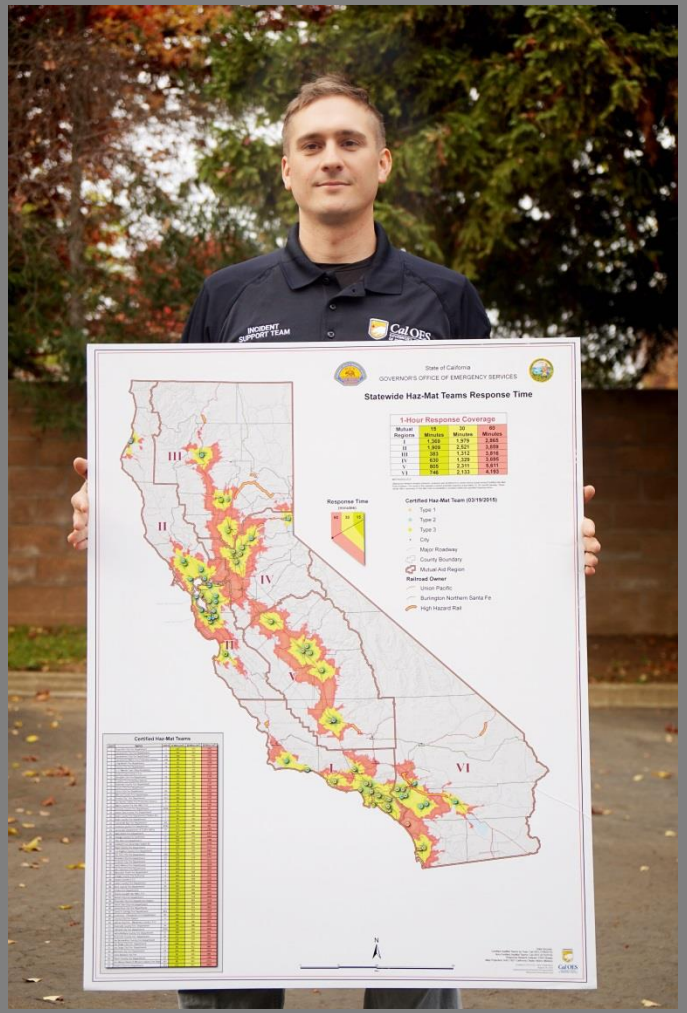


County of Nevada

Ask About Available Incident Data Map & App Templates for your Customization and Data Sharing with Cal OES

Accomplishments

Congratulations to Geographic Information Systems (GIS) Analyst, Hans Frederiksen, whose map submission “Statewide Haz-Mat Teams Response Time,” has been selected for publication in the Environmental Systems Research Institute (Esri) Map Book, Volume 31, which will be distributed at the next Esri User Conference scheduled for June 27–July 1, 2016.



Special Achievement in GIS Award 2015

By embracing geographic information system (GIS) technology, the organizations who received this award have used GIS to improve our world—and set new precedents throughout the GIS community.

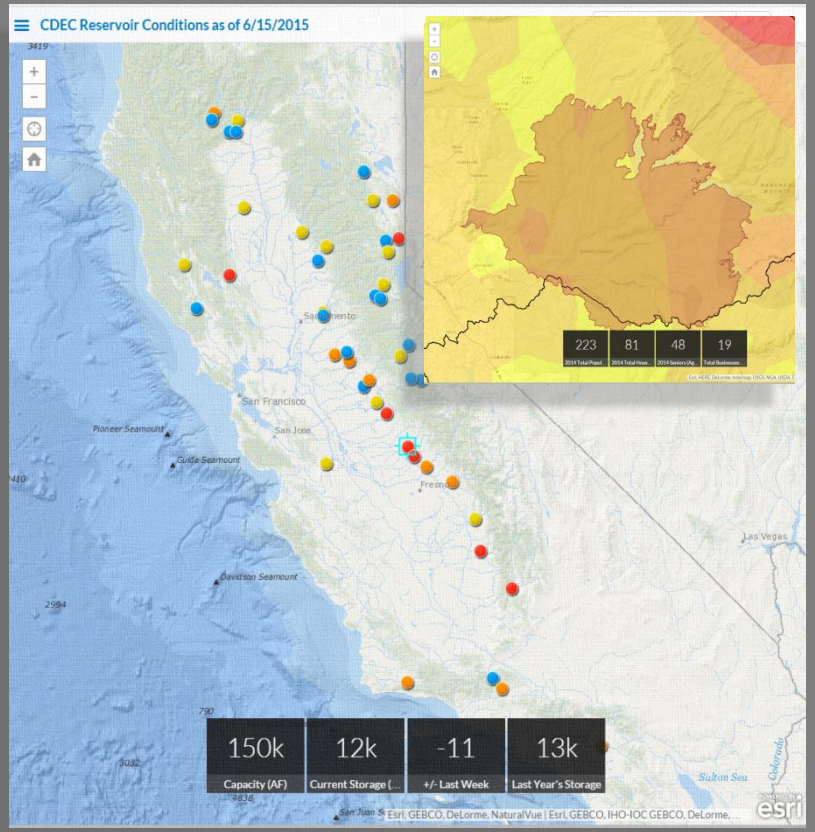
Approximately 150 organizations were selected from approximately 300,000 to receive a Special Achievement in GIS Award in a special ceremony at the 30th Annual Environmental Systems Research Institute (ESRI) International User Conference The winning organizations received this honor for their vision, leadership, hard work, and innovative use of ESRI's GIS technology.

Lessons Learned

ArcGIS Online (AGOL) Best Practices and Governance:

- Create and Maintain Cal OES AGOL Groups, Users, Roles, and Access
- Establish SOP for Joining Cal OES AGOL Groups
- Define AGOL Share Data Formats
- Establish AGOL Workflows for Incident Data and Sharing
- Shared Data Management – Download and Archives

Incident Data Acquisition and Display on Map Journals:

- Active Engagement with Participating Partners for Current and Real-time Incident Data for a Common Operational Picture

- Display Current and Status Change Data for Quick and Accurate Situational Awareness